

Board of Education Capital Plan FY21-FY26

PROJECT TITLE: Tolland Middle and Intermediate School Geothermal Purge Cart

DATE SUBMITTED: 10/3/2019

DEPARTMENT PROJECT INFORMATION

Department:

Department Contact: **Peter Sztaba**

Fiscal Year(s)

Requested:

FY2021 FY2022 FY2023 FY2024 FY2025 FY2026

Department

Priority:

Critical High **Medium** Low

Type of Project:

Vehicle Equipment Technology **Facility** Other

PROJECT DESCRIPTION

The Facilities Department would like to purchase a Geothermal Purge Cart that could be utilized when servicing the geothermal wells and when conducting pressure and flow tests to the supply equipment. The removal of air and maintaining correct pressure and flow is imperative to this equipment to run correctly. A purge cart would allow for quicker troubleshooting, increase capacity to diagnose and remedy issues, will reduce cost, and provide quicker response times for repairs and issues. The BOE should be setting aside around \$5,000 for the purchase or construction of something that would be designed for our application

PROJECT NEED

Impact on Department if Recommended or Not Recommended:

Improved response time for repairs, improved comfort for occupants when work conducted, lower repair costs

Cost to Maintain:

Replace needed parts as necessary on swap units

Describe all Benefits and/or Savings:

Quicker repair response times, less down-time, improved air comfort, reduced cost, increased capacity

PROJECT BUDGET AND FUNDING SOURCES

Project Cost Summary, Recommended Financing Sources, & Operating Budget Impact							
Project Cost Elements	FY 2021	FY 2022	FY 2023	FY 2024	FY2025	FY2026	TOTAL
Feasibility Study							
Design - Engineering							
Site Acquisition							
Site Improvements							
Construction							
Inspection Services							
Equipment & Furnishings	\$5,000						
Vehicle Purchase							
Other							
Contingency							
TOTALS		\$5,000					
Financing Sources							
Lease-Purchase							
Water Enterprise Funds							
Sewer Enterprise Funds							
Solid Waste Enterprise Funds							
Storm Water Enterprise Funds							
State / Federal Grants							
Sale of Surplus Property							
CPA							
Other (specify)		\$5,000	GF or Energy Reserve				
City Appropriation							
TOTALS		\$5,000					



Sample style of a purge cart that could be utilized for our geothermal systems located at Tolland Middle School and Tolland Intermediate School. Cart would be used to purge air from the system, check flow and pressure of the DowFrost(refrigerant in the ground loop and equipment supply piping). Also necessary when adding additional DowFrost to the system.